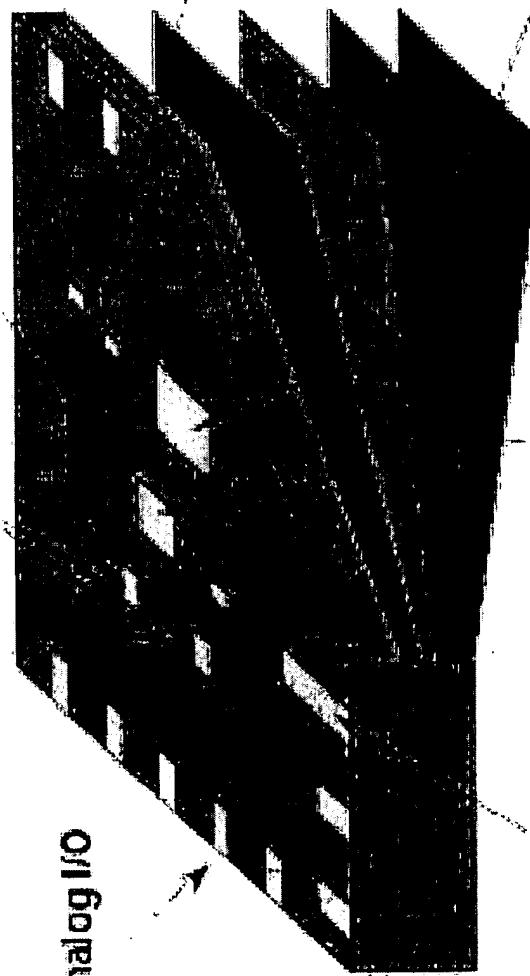


Typical RF Circuit

RF ICs Surface Acoustic Wave (SAW) Filter

Digital and Analog I/O



RF Feedthrough

PLL IC

Baseband Processor IC

Multilayer Ceramic
With Buried Circuitry
(i.e., resonators, filters,
capacitors...)

Discrete Devices
(transistors, diodes)

FIGURE 1
(PRIOR ART)

Radio Frequency (RF) Filter Within Multilayered Low
Temperature Co-Fired Ceramic (LTCC) Substrate
Inventor: Christopher Barratt, Docket No. P05703

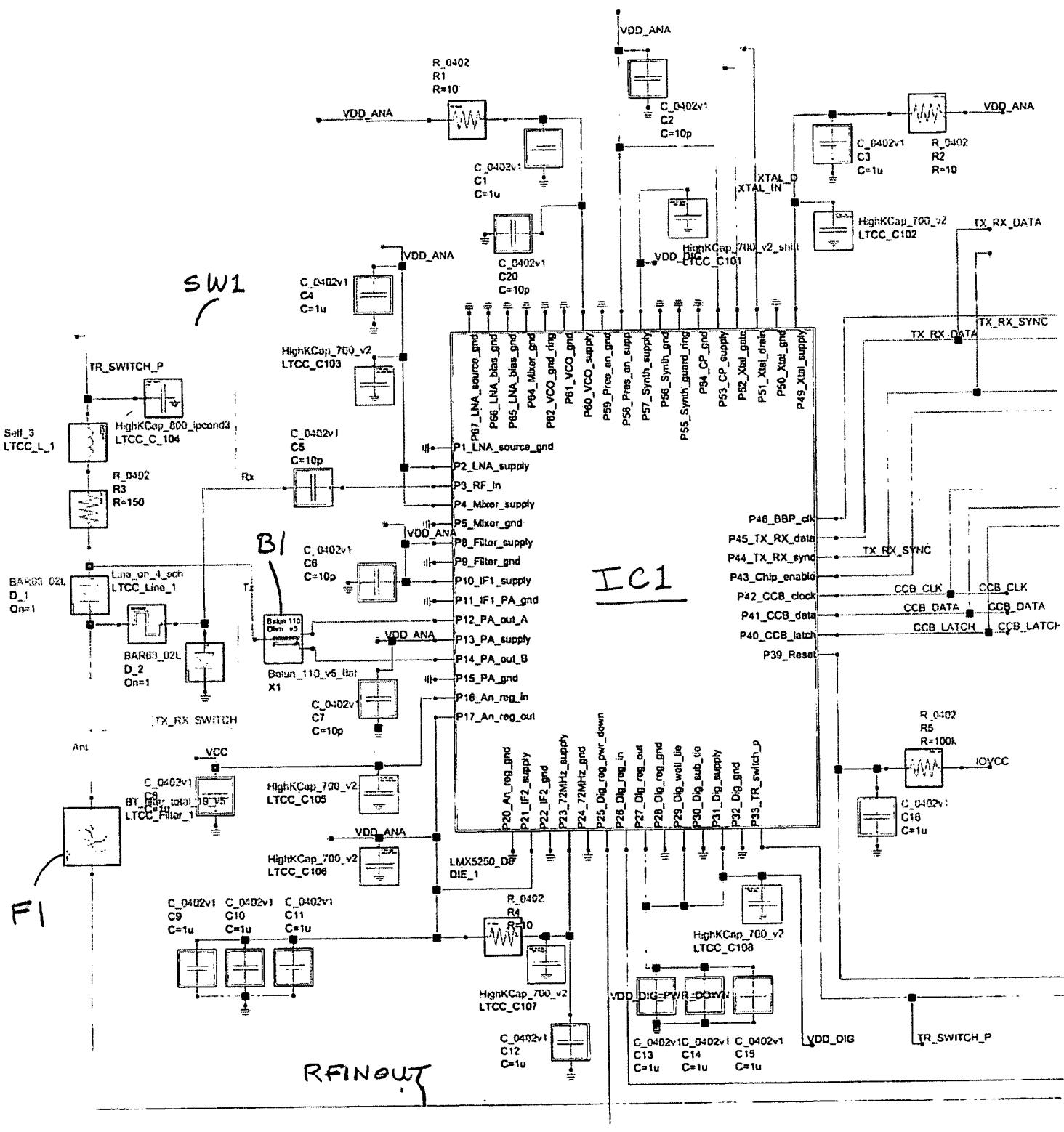


FIGURE 2A

Radio Frequency (RF) Filter Within Multilayered Low
Temperature Co-Fired Ceramic (LTCC) Substrate
Inventor: Christopher Barratt, Docket No. P05703

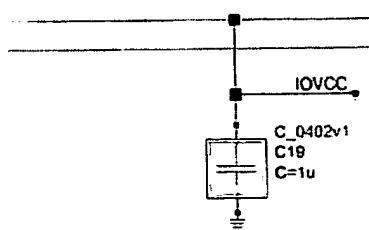
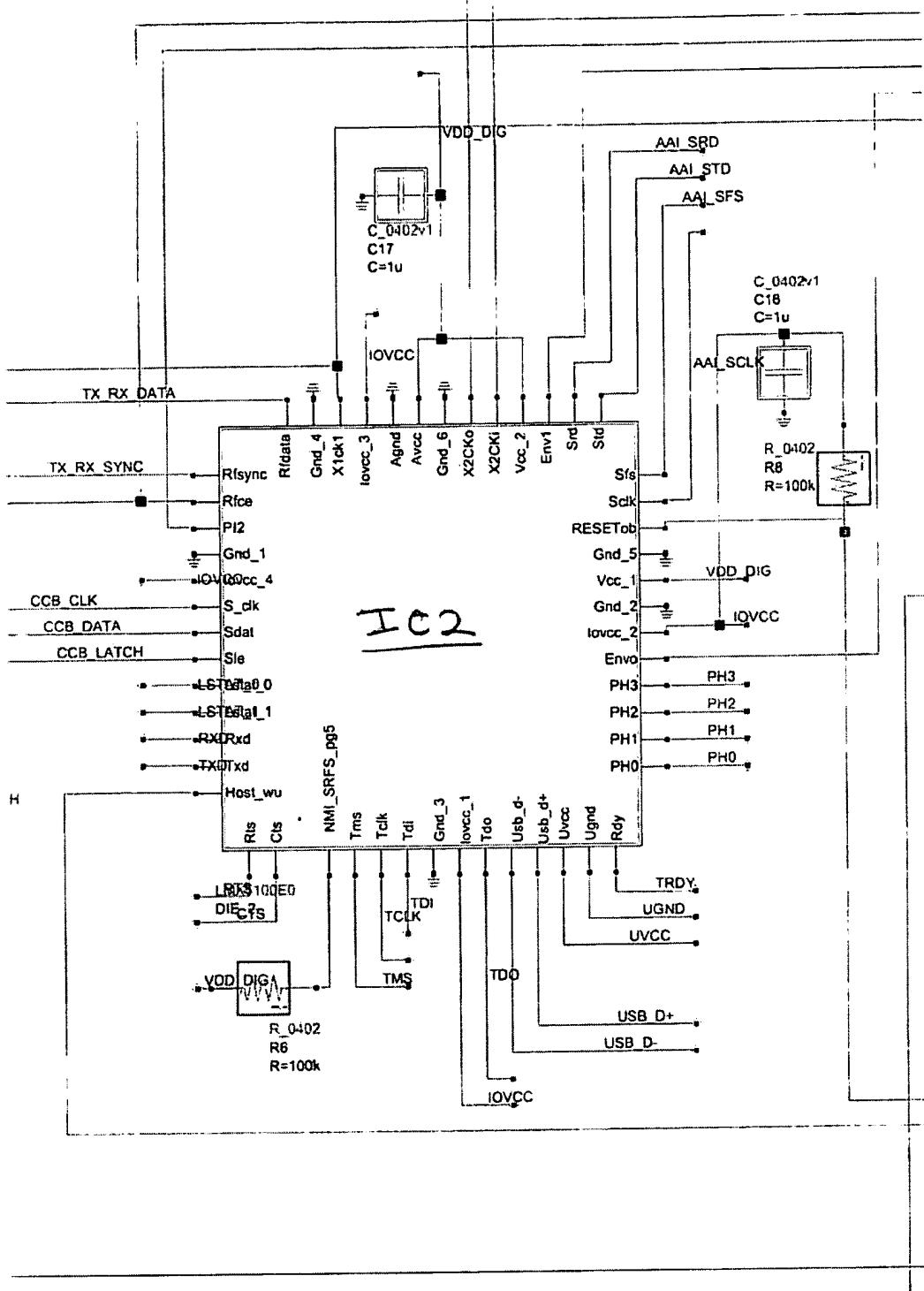


FIGURE 2B

Radio Frequency (RF) Filter Within Multilayered Low
Temperature Co-Fired Ceramic (LTCC) Substrate
Inventor: Christopher Barratt, Docket No. P05703

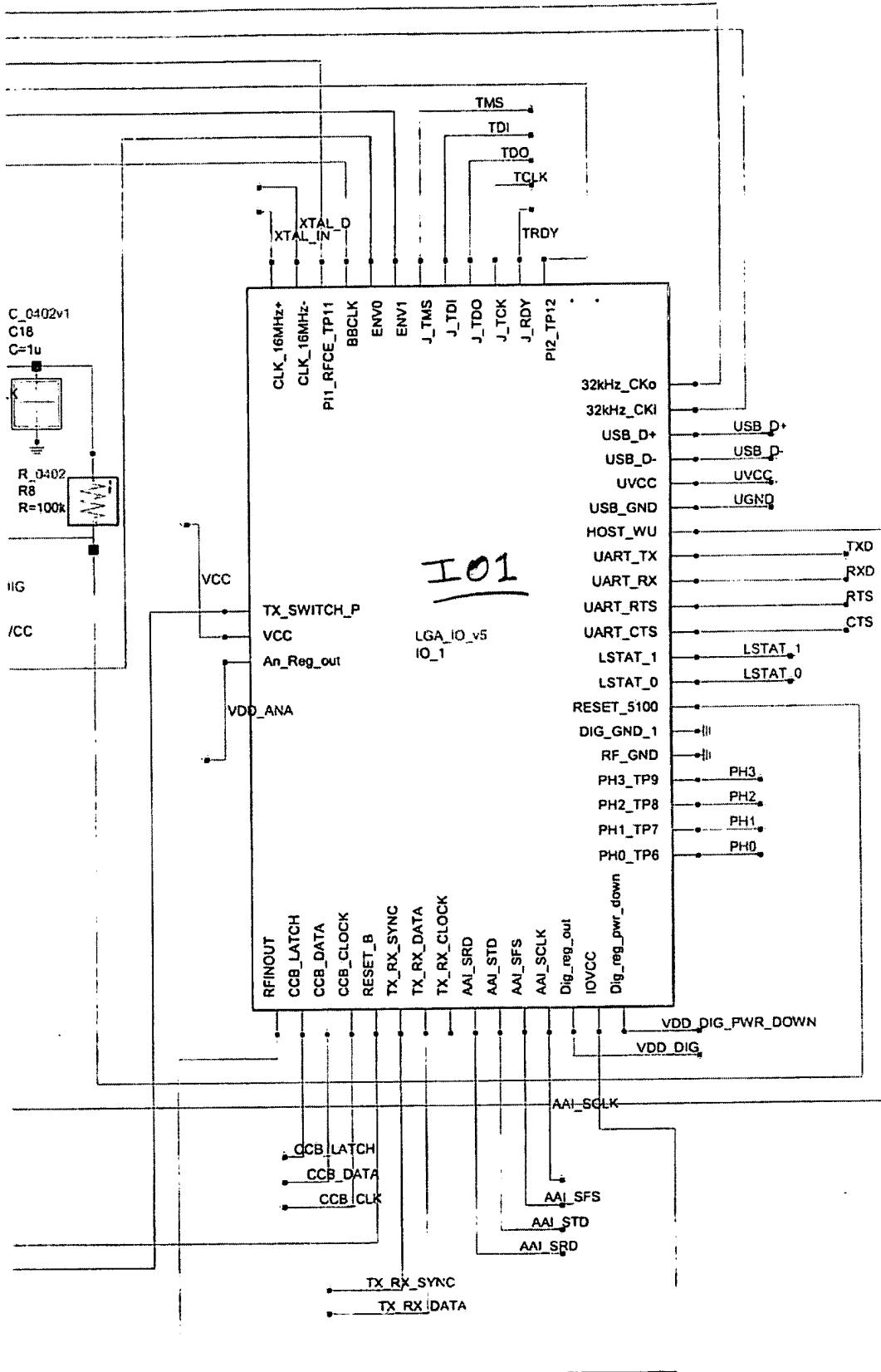


FIGURE 2C

Radio Frequency (RF) Filter Within Multilayered Low
Temperature Co-Fired Ceramic (LTCC) Substrate
Inventor: Christopher Barratt, Docket No. P05703

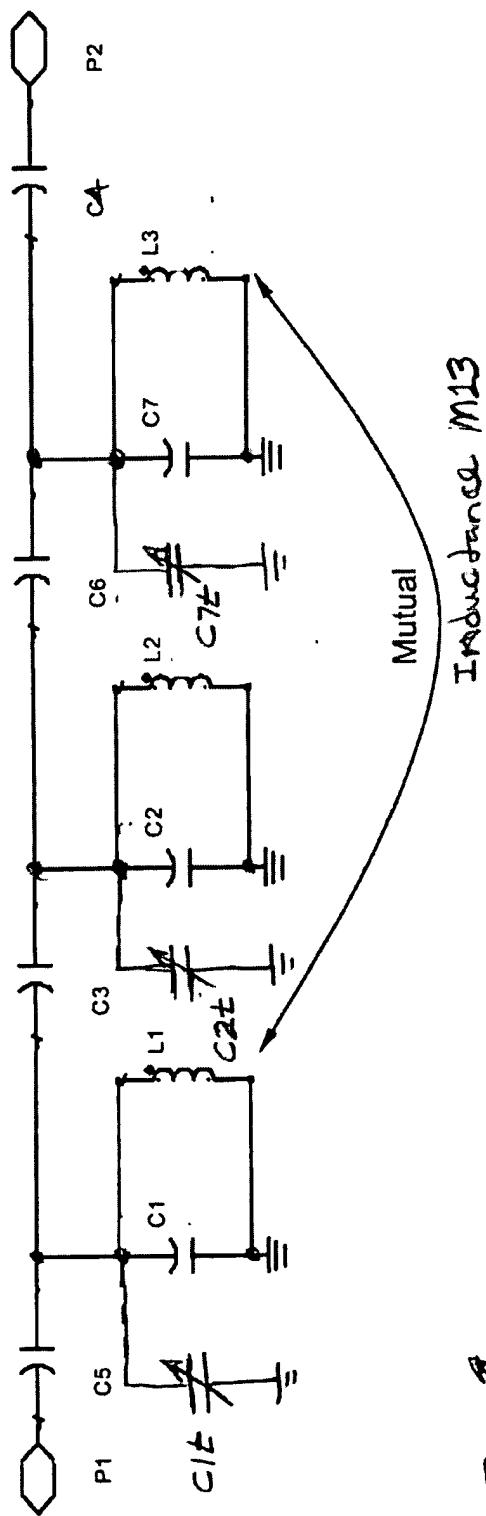


FIGURE 3

F1 ↗

Radio Frequency (RF) Filter Within Multilayered Low
Temperature Co-Fired Ceramic (LTCC) Substrate
Inventor: Christopher Barratt, Docket No. P05703

FIGURE
4A

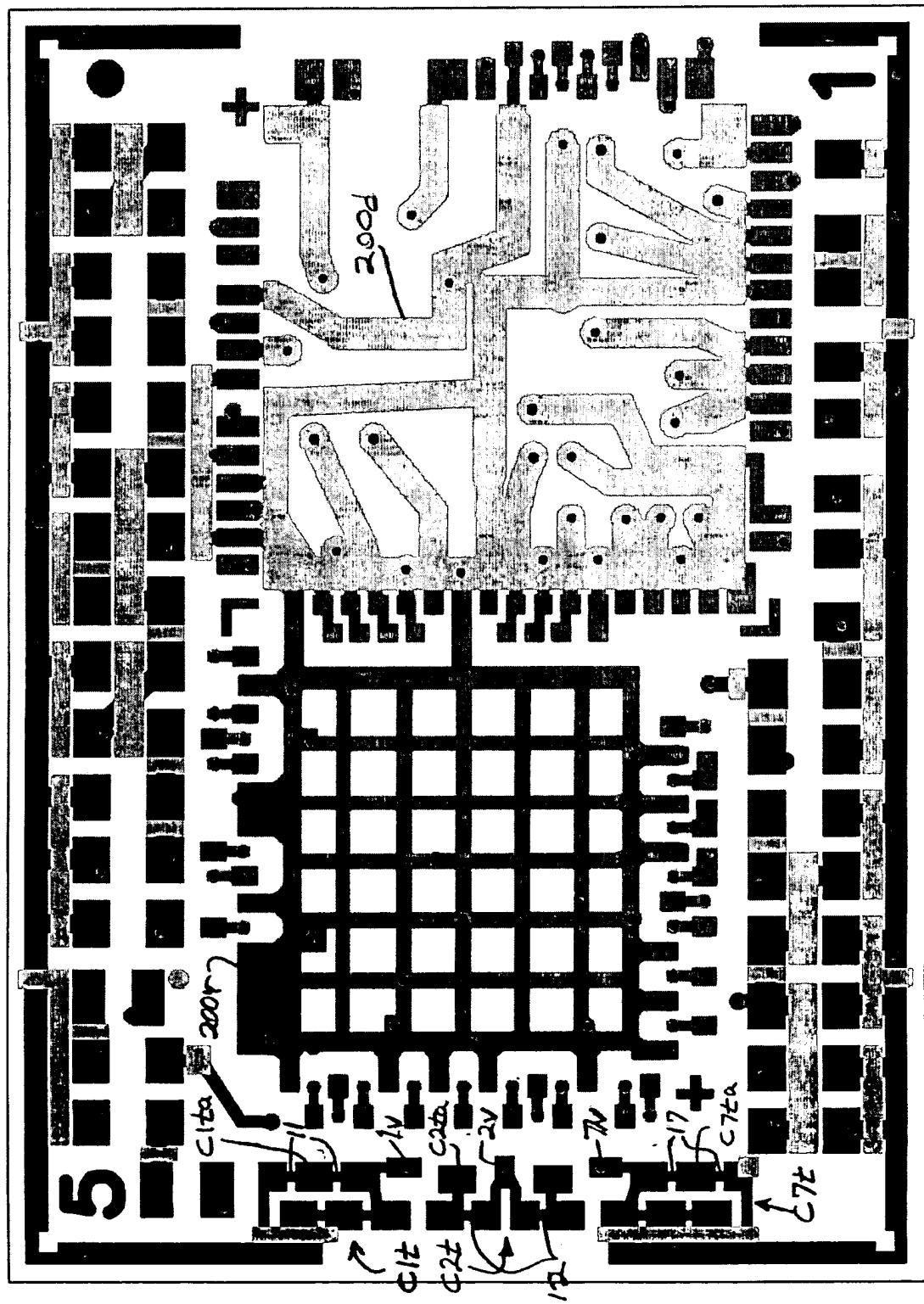
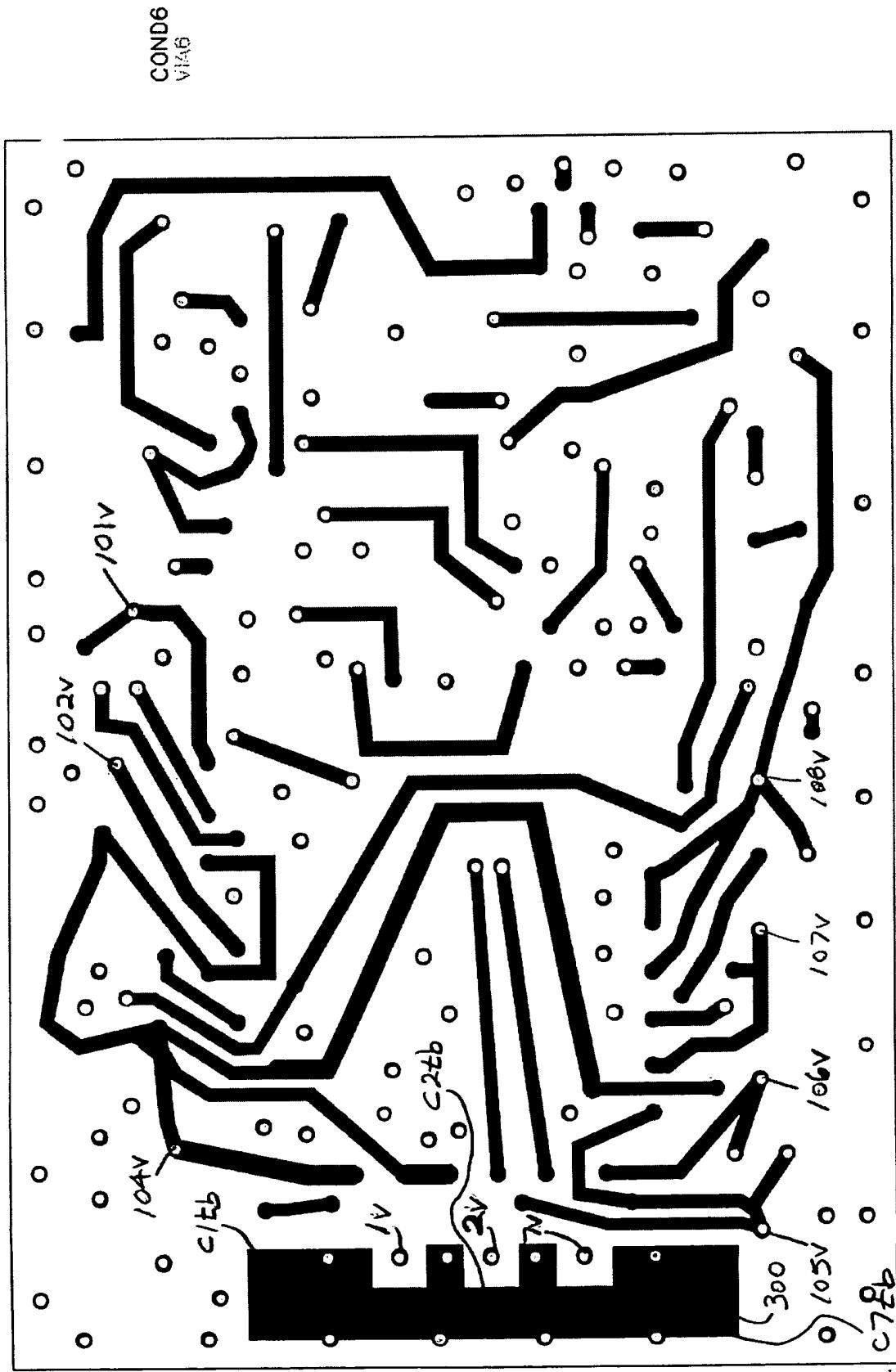
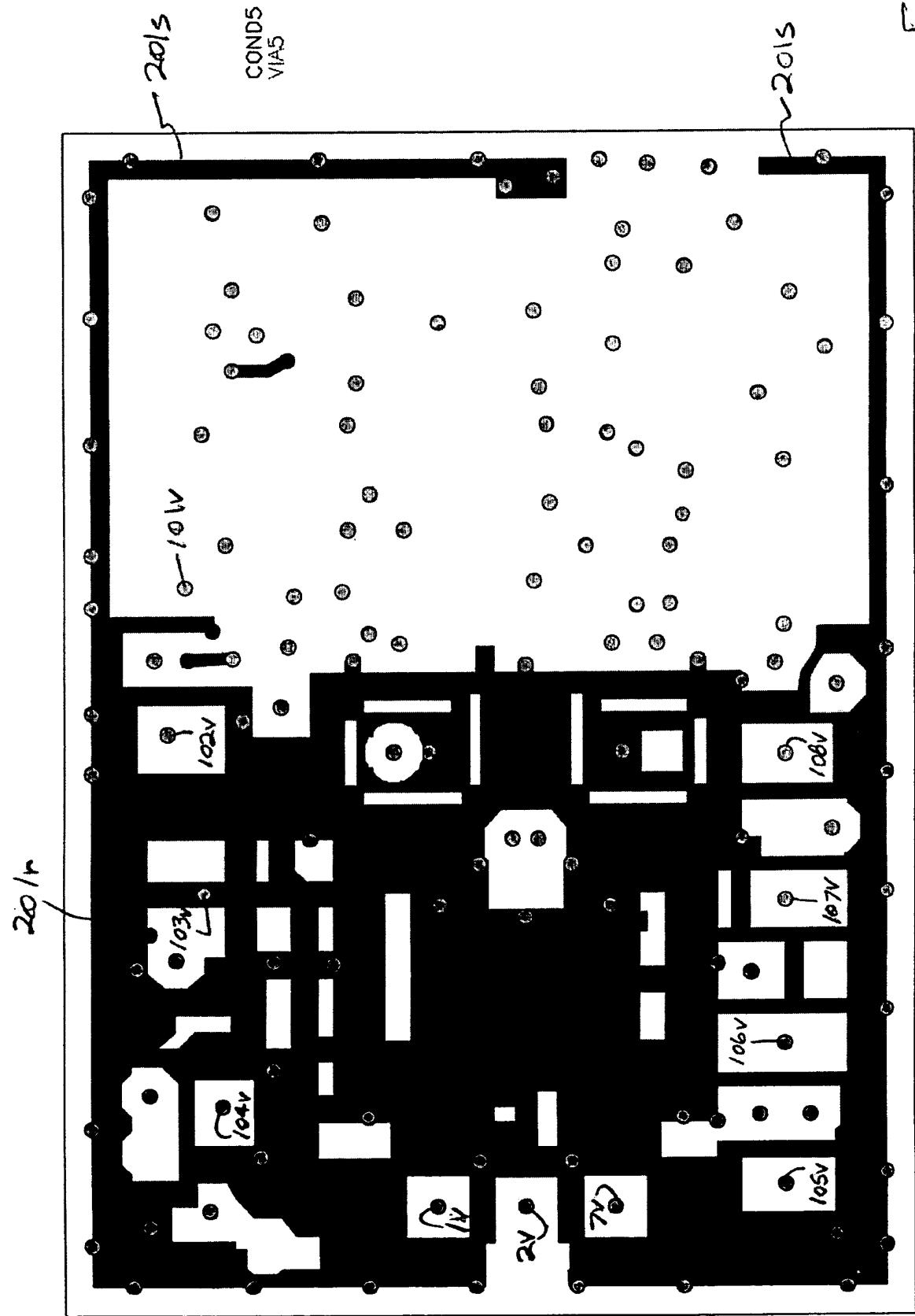


FIGURE
4B



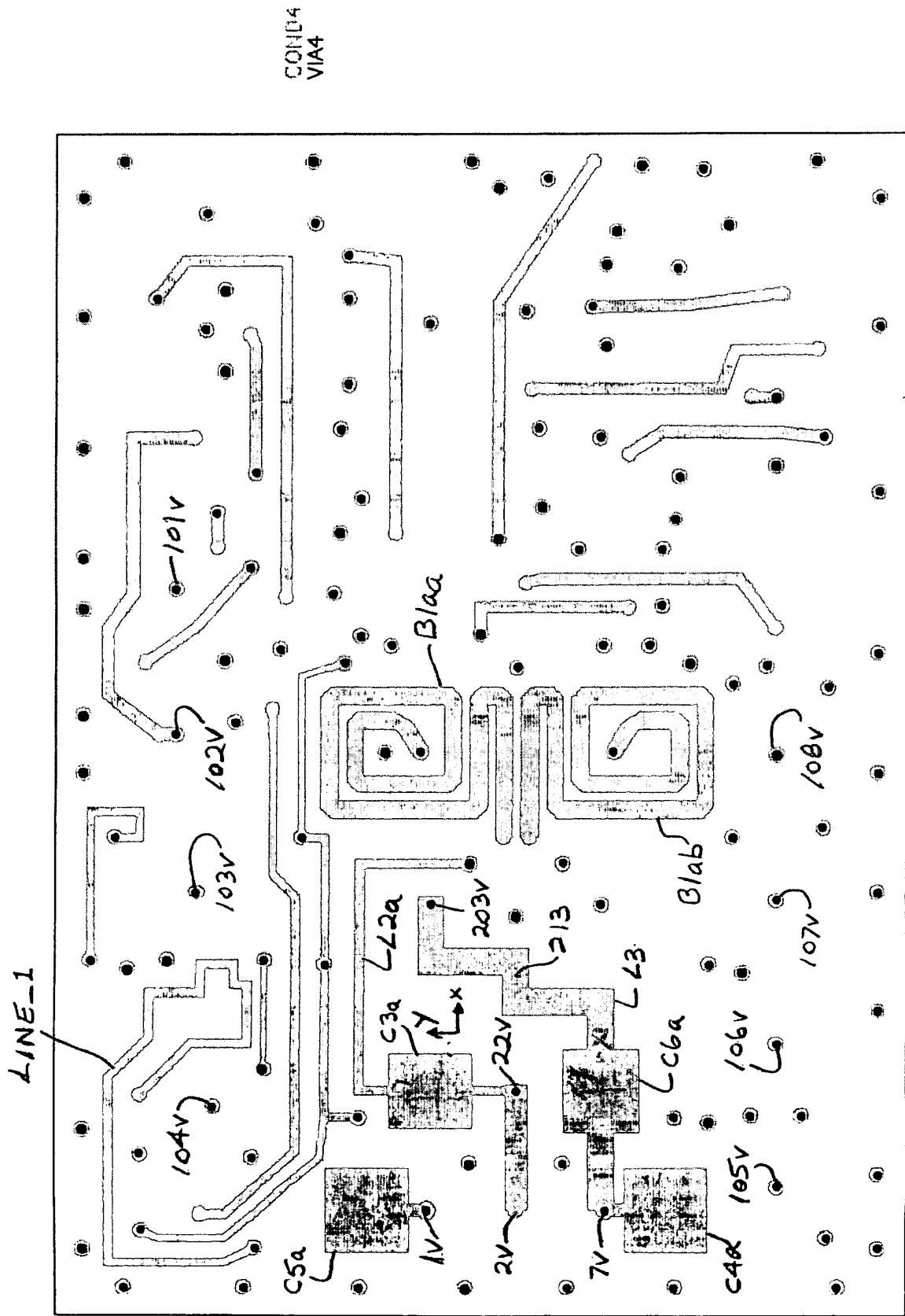
Radio Frequency (RF) Filter Within Multilayered Low
Temperature Co-Fired Ceramic (LTCC) Substrate
Inventor: Christopher Barratt, Docket No. P05703

FIGURE
4C



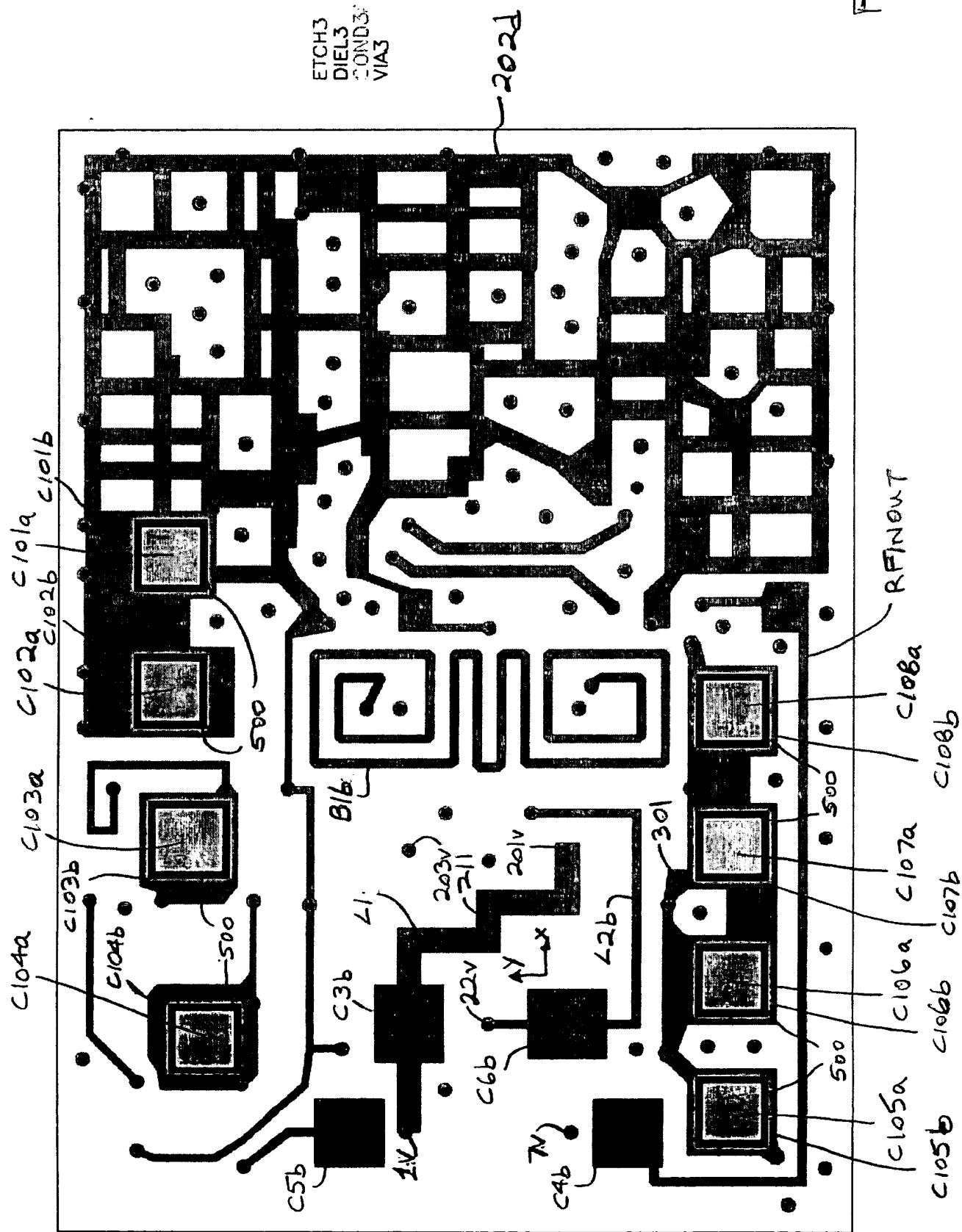
Radio Frequency (RF) Filter Within Multilayered Low
Temperature Co-Fired Ceramic (LTCC) Substrate
Inventor: Christopher Barratt, Docket No. P05703

FIGURE
4D



Radio Frequency (RF) Filter Within Multilayered Low Temperature Co-Fired Ceramic (LTCC) Substrate
Inventor: Christopher Barratt, Docket No. P05703

FIGURE 4E



Radio Frequency (RF) Filter Within Multilayered Low
Temperature Co-Fired Ceramic (LTCC) Substrate
Inventor: Christopher Barratt, Docket No. P05703

FIGURE
4F

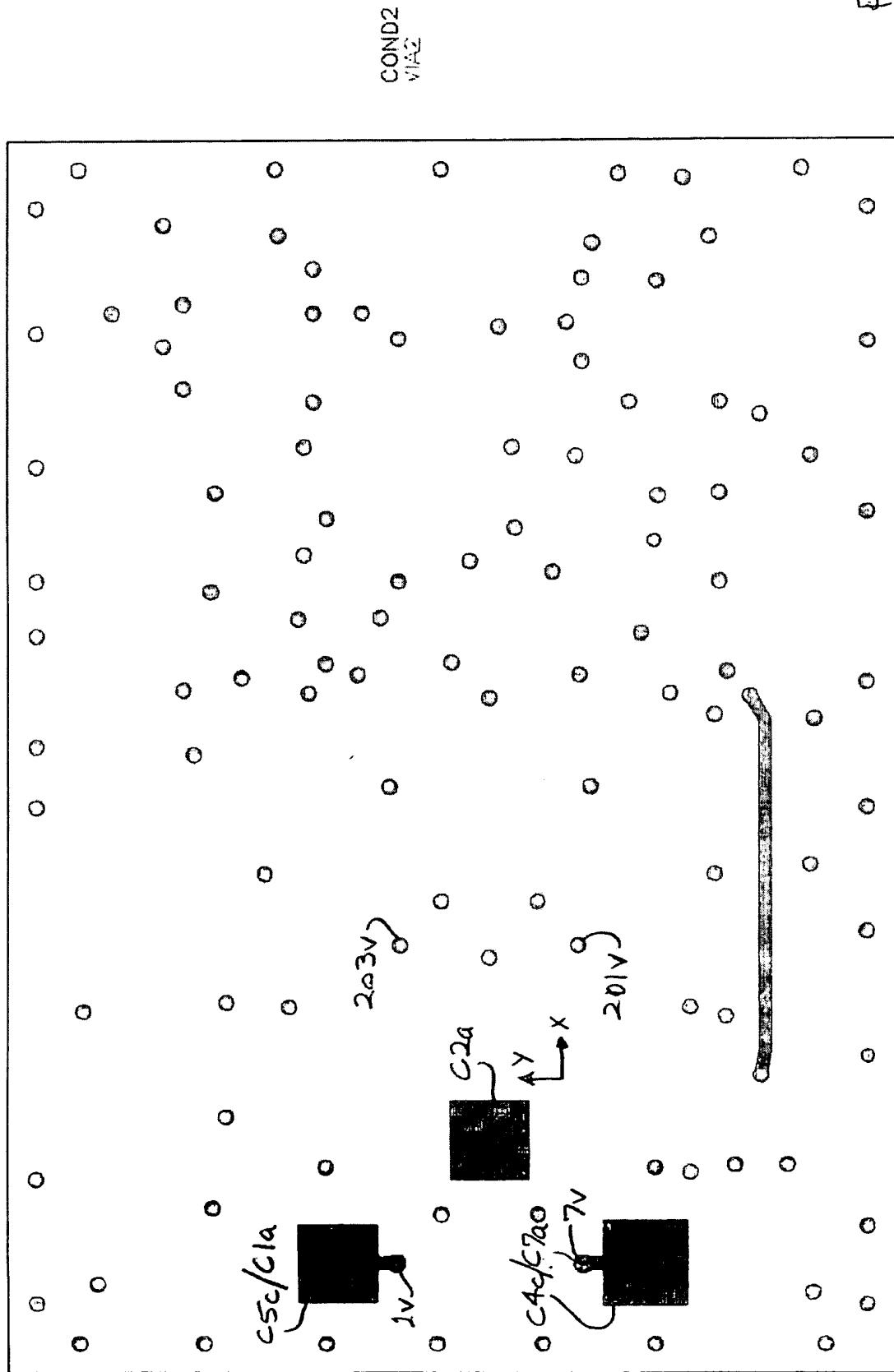
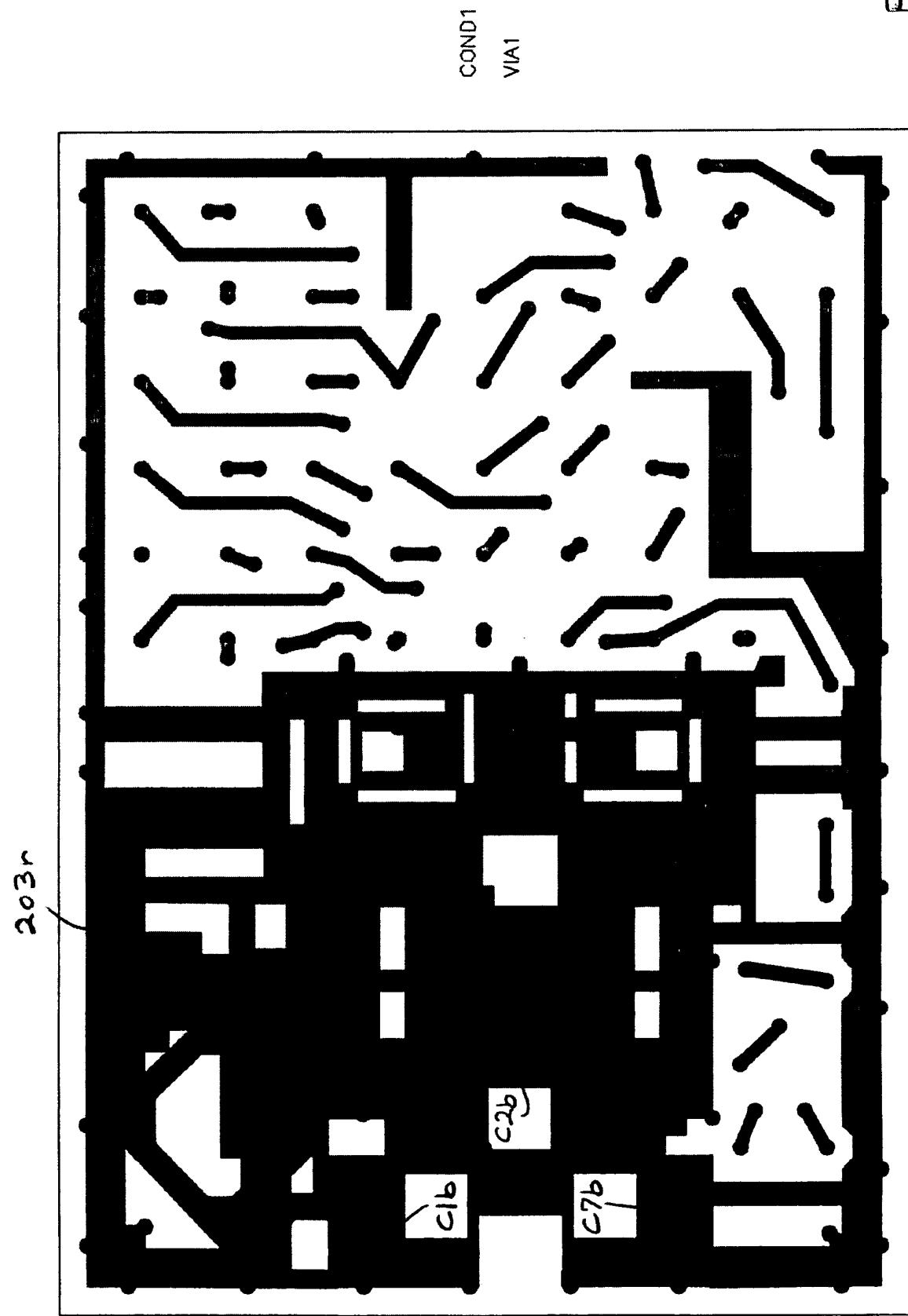
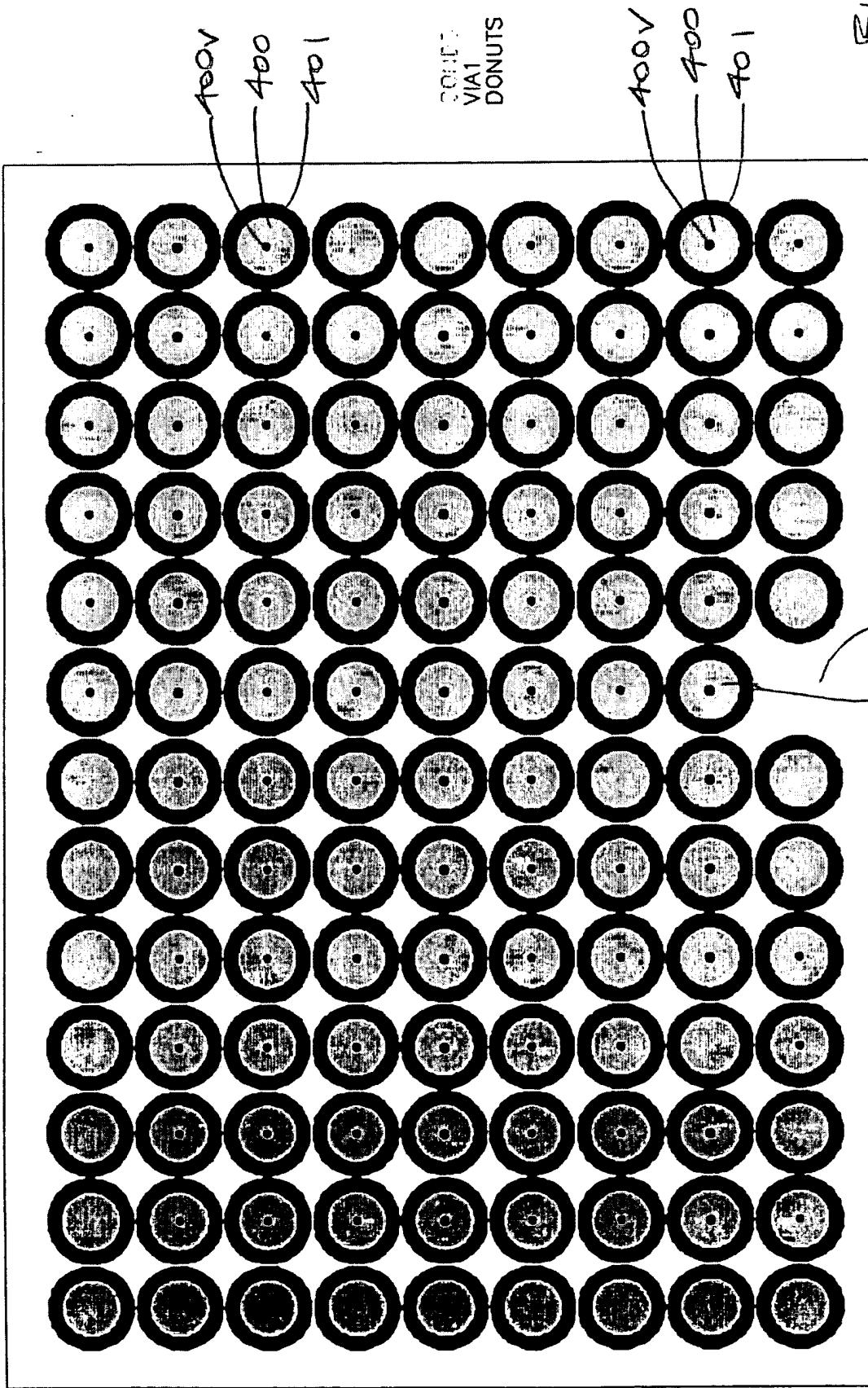


FIGURE
4G



Radio Frequency (RF) Filter Within Multilayered Low
Temperature Co-Fired Ceramic (LTCC) Substrate
Inventor: Christopher Barratt, Docket No. P05703

FIGURE
44



**Radio Frequency (RF) Filter Within Multilayered Low
Temperature Co-Fired Ceramic (LTCC) Substrate
Inventor: Christopher Barratt, Docket No. P05703**

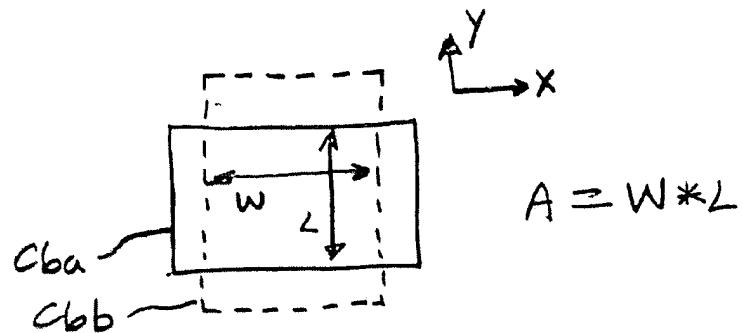


FIGURE 5

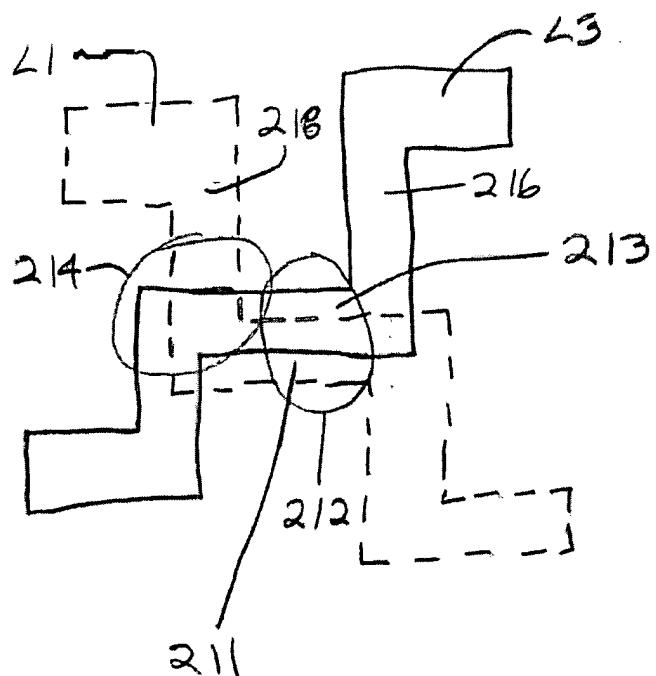


FIGURE 6

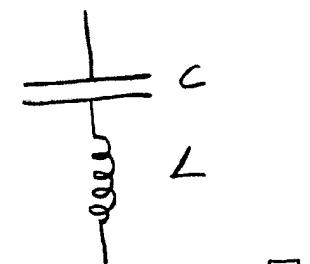


FIGURE 7